

A² saving the deferred trace data buffer and a memory contents comprising the address space of the application in a non-volatile storage medium.

9. (Amended) A method of printing data from an application, comprising the steps of:

A³ invoking a print function with a format argument that is a pointer to a memory location in an address space of the application from the application;
saving the format argument in a deferred trace data buffer;
returning to the application that invoked the print function; then
processing the deferred trace data buffer to print the format argument.

10. (Amended) A method as recited in Claim 9, wherein the step of saving the format argument in the deferred trace data buffer comprises the step of:
saving the pointer in the deferred trace data buffer

A⁴ 15. (Amended) A method as recited in Claim 9, wherein the step of saving the format argument in the deferred trace data buffer comprises the step of:
saving a contents of the memory location in the address space of the application that is referenced by the pointer in the deferred trace data buffer.

A⁵ 19. (Amended) A method as recited in Claim 18, wherein the step of saving the contents of the memory location in the address space that is referenced by the pointer in the deferred trace data buffer is performed on a first computing machine and the step of processing the deferred trace data buffer to print the contents of the memory location in the address space of the application that is referenced by the pointer is performed on a second computing machine, the second computing machine being different from the first computing machine and having access to the deferred trace data buffer via the non-volatile storage medium.

20. (Amended) A system for printing data from an application, comprising:

AS means for invoking a print function with a format argument that is a pointer to a memory location in an address space of the application and at least one data argument from the application;

means for saving the format argument and the at least one data argument in a deferred trace data buffer;

means for returning to the application that invoked the print function; and

means for processing the deferred trace data buffer to print the at least one data argument after returning to the application that invoked the print function.

AG 26. (Amended) A system as recited in Claim 20, further comprising:
means for saving the deferred trace data buffer and a memory contents comprising the address space of the application in a non-volatile storage medium.

A7 28. (Amended) A system for printing data from an application, comprising:
means for invoking a print function with a format argument that is a pointer to a memory location in an address space of the application from the application;
means for saving the format argument in a deferred trace data buffer;
means for returning to the application that invoked the print function; and
means for processing the deferred trace data buffer to print the format argument after returning to the application that invoked the print function.

29. (Amended) A system as recited in Claim 28, wherein the means for saving the format argument in the deferred trace data buffer comprises:
means for saving the pointer in the deferred trace data buffer.

A3 34. (Amended) A system as recited in Claim 28, wherein the means for saving the format argument in the deferred trace data buffer comprises:
means for saving a contents of the memory location in the address space of the application that is referenced by the pointer in the deferred trace data buffer.

38. (Amended) A system as recited in Claim 37, wherein the means for saving the contents of the memory location in the address space that is referenced by the pointer in the deferred trace data buffer executes on a first computing machine and the means for processing the deferred trace data buffer to print the contents of the memory location in the address space of the application that is referenced by the pointer executes on a second computing machine, the second computing machine being different from the first computing machine and having access to the deferred trace data buffer via the non-volatile storage medium.

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39. (Amended) A computer program product for printing data from an application, comprising:

a computer readable storage medium having computer readable program code embodied therein, the computer readable program code comprising:

computer readable program code for invoking a print function with a format argument that is a pointer to a memory location in an address space of the application and at least one data argument from the application;

computer readable program code for saving the format argument and the at least one data argument in a deferred trace data buffer;

computer readable program code for returning to the application that invoked the print function; and

computer readable program code for processing the deferred trace data buffer to print the at least one data argument after returning to the application that invoked the print function.

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45. (Amended) A computer program product as recited in Claim 39, further comprising:

computer readable program code for saving the deferred trace data buffer and a memory contents comprising the address space of the application in a non-volatile storage medium.

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47. (Amended) A computer program product for printing data from an application,

comprising:

a computer readable storage medium having computer readable program code embodied therein, the computer readable program code comprising:

computer readable program code for invoking a print function with a format argument that is a pointer to a memory location in an address space of the application from the application;

A¹¹ computer readable program code for saving the format argument in a deferred trace data buffer;

computer readable program code for returning to the application that invoked the print function; and

computer readable program code for processing the deferred trace data buffer to print the format argument after returning to the application that invoked the print function.

48. (Amended) A computer program product as recited in Claim 47, wherein the computer readable program code for saving the format argument in the deferred trace data buffer comprises:

computer readable program code for saving the pointer in the deferred trace data buffer.

A¹² 53. (Amended) A computer program product as recited in Claim 47, wherein the computer readable program code for saving the format argument in the deferred trace data buffer comprises:

computer readable program code for saving a contents of the memory location in the address space of the application that is referenced by the pointer in the deferred trace data buffer.

A¹³ 57. (Amended) A computer program product as recited in Claim 56, wherein the computer readable program code for saving the contents of the memory location in the address space that is referenced by the pointer in the deferred trace data buffer executes on a first computing machine and the computer readable program code for processing the deferred

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A¹³ trace data buffer to print the contents of the memory location in the address space of the application that is referenced by the pointer executes on a second computing machine, the second computing machine being different from the first computing machine and having access to the deferred trace data buffer via the non-volatile storage medium.
